

(c) integrate *in situ* after implantation into the parenchymal tissues at a local anatomic site in the host subject; and

(d) differentiate *in situ* after integration into a cell selected from the group consisting of neurons, oligodendrocytes, and astrocytes

wherein the transplanted neural stem cells retain their *in vivo* responsiveness to the mitogenic growth factor.

A1
cont

2. (Amended) The method of claim 1, wherein said neural stem cells comprise mammalian embryonic progenitor cells.

3. (Amended) The method of claim 1, wherein said first locus is in the striatum of the brain and wherein said second locus is in the lateral ventricle of the brain.

4. (Amended) The method of claim 1, wherein the *in vivo* migration occurs towards said second locus.

A2

6. (Amended) The method of claim 1, wherein said neural stem cells are cultured in media comprising the mitogenic growth factor prior to transplantation.

13. (New) The method of claim 6, wherein said culture is a suspension culture.

A3

14. (New) The method of claim 6, wherein said culture is an adherent culture.